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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/692,628	10/24/2003	Lukas Doerrer	1406/176	8645	
25297	7590 06/07/2004		EXAMINER		
JENKINS & WILSON, PA			JEAN PIERI	JEAN PIERRE, PEGUY	
3100 TOWER SUITE 1400	R BLVD		ART UNIT	PAPER NUMBER	
DURHAM, NC 27707			2819		
		DATE MAILED: 06/07/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

				the.			
		Application No.	Applicant(s)	470			
		10/692,628	DOERRER ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Peguy JeanPierre	2819				
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespond nc address				
Period fo	• •	/ IC CET TO EVDIDE AMONTH!	S) EDOM				
THE N - Exten after: - If the - If NO - Failui Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)🖂	Responsive to communication(s) filed on 24 Oc	<u>ctober 2003</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Dispositi	on of Claims						
4)🖂	☑ Claim(s) <u>1-24</u> is/are pending in the application.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	☐ Claim(s) is/are allowed.						
6)🖂	☐ Claim(s) <u>1-24</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers						
9) 🔲 -	The specification is objected to by the Examine	г.					
	The drawing(s) filed on 24 October 2003 is/are:		to by the Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) 🔲	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
12) 🗌 🛚	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
_	a) All b) Some * c) None of:						
,-	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents		on No				
	3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
	application from the International Bureau	ı (PCT Rule 17.2(a)).					
* S	see the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachmort	Ne)						
Attachment 1) Notice	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>5/21/2004</u> .	5)	atent Application (PTO-152)				

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement filed on 11/21/2003 has been considered.

Specification

3. The specification has not been checked to the extent necessary to determine the presence of all possible typographical and grammatical errors. Applicant cooperation is necessary in correcting any errors he/she may become aware in the application.

Claim Rejections - 35 USC § 112

4. Claims 1-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1 and 13, line 6, the term "the number of its resolution levels" is confusing; In addition, line 2 recites a quantizer that generates a digital input signal and line 17 recites a comparator that generates a digital result; it is not clear whether "the digital result output" and "the digital result" are identical since they originate from different sources; the relationship between the quantizer and the comparator is not well established, the inputs and the outputs of both elements are not well defined. Please clarify.

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In claim 1 line 18, the term "the accurate current" lacks antecedent basis. In addition, the term is unclear because one cannot decipher which of the currents previously recited is accurate and why. Please clarify.

In addition, it is not understood how the comparator "decides whether the... is not equal to zero." The comparator compares, does not detect; if it does detect it must be clearly stated how the detection is made.

In claim 2, the term "the analog feedback current" lacks antecedent basis; in addition, in claim 2, the relationship between "the digital result value" (line 2), "the result value" (line 4) is not clear.

In claim 13, line 4 (page 5) the term "the last weighting of the comparators" lacks antecedent basis (note that only a voltage comparator was previously recited); the term "the individual threshold signals" lacks antecedent basis;

In claim 18 line 3 the term "the respective comparator" lacks antecedent basis; line 4, the term "the desired threshold signal" lacks antecedent basis.

In claim 19, line 2, the term "the result bits" lacks antecedent basis.

The claims must be drafted in a clear and concise manner to help the Examiner in determining unambiguously Applicant's invention.

Allowable Subject Matter

5. Claims 1-24 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peguy JeanPierre whose telephone number is (571) 272-1803. The examiner fax phone number is (571) 273-1803.

Peguy Jean Pierre Primary Examiner